EXHIBIT E

Exhibit E: Exemplary Copying of Command Responses

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| Cisco IOS XE 3.5<br><br>Effective date of registration: 11/24/2014 | ```
Router# show interfaces atm 0/0/0
ATM0/0/0 is up, line protocol is up
  Hardware is cyBus ATM
  Internet address is 10.1.1.1/24
  MTU 4470 bytes, sub MTU 4470, BW 156250 Kbit, DLY 80 usec, rely 255/255, load 1/255
  Encapsulation ATM, loopback not set, keepalive set (10 sec)
  Encapsulation(s): AAL5, PVC mode
  256 TX buffers, 256 RX buffers,
  2048 maximum active VCs, 1024 VCs per VP, 1 current VCCs
  VC idle disconnect time: 300 seconds
  Last input never, output 00:00:05, output hang never
  Last clearing of "show interface" counters never
  Queueing strategy: fifo
  Output queue 0/40, 0 drops; input queue 0/75, 0 drops
  5 minute input rate 0 bits/sec, 1 packets/sec
  5 minute output rate 0 bits/sec, 1 packets/sec
     5 packets input, 560 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     5 packets output, 560 bytes, 0 underruns
     0 output errors, 0 collisions, 0 interface resets
     0 output buffer failures, 0 output buffers swapped out
```<br><br>Cisco IOS Asynchronous Transfer Mode Command Reference (2011), at 476 | **Examples**<br>• These commands display interface counters, clear the counters, then display the counters again.<br><br>```
switch#show interfaces ethernet 1
Ethernet1 is up, line protocol is up (connected)
  Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff)
  MTU 9212 bytes, BW 10000000 Kbit
  Full-duplex, 10Gb/s, auto negotiation: off
  Last clearing of "show interface" counters never
  5 minutes input rate 001 bps (0.0% with framing), 0 packets/sec
  5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec
     228570854005 packets input, 225028582832583 bytes
     Received 29769609741 broadcasts, 3073437605 multicast
     113 runts, 1 giants
     118 input errors, 117 CRC, 0 alignment, 18 symbol
     27511409 PAUSE input
     335031607678 packets output, 27845413138330 bytes
     Sent 14282316688 broadcasts, 54045824072 multicast
     108 output errors, 0 collisions
     0 late collision, 0 deferred
     0 PAUSE output
```<br><br>Arista User Manual v. 4.13.6F (4/14/2014), at 637 |
| Cisco IOS 12.4<br><br>Effective date of registration: 8/12/2005 | ```
Router# show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set
```<br><br>Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IP2R-553 | IPv4 Routing                                                    Chapter 23  IPv4<br><br>**Examples**<br>• This command displays IP routes learned through BGP.<br>```
switch>show ip route bgp
Codes: C - connected, S - static, K - kernel,
       O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1,
       E2 - OSPF external type 2, N1 - OSPF NSSA external type 1,
       N2 - OSPF NSSA external type2, B I - iBGP, B E - eBGP,
       R - RIP, A - Aggregate

 B E   170.44.48.0/23 [20/0] via 170.44.254.78
 B E   170.44.50.0/23 [20/0] via 170.44.254.78
 B E   170.44.52.0/23 [20/0] via 170.44.254.78
 B E   170.44.54.0/23 [20/0] via 170.44.254.78
 B E   170.44.254.112/30 [20/0] via 170.44.254.78
 B E   170.53.0.34/32 [1/0] via 170.44.254.78
 B I   170.53.0.35/32 [1/0] via 170.44.254.2
                           via 170.44.254.13
                           via 170.44.254.20
                           via 170.44.254.67
                           via 170.44.254.35
                           via 170.44.254.98

switch>
```<br><br>Arista User Manual v. 4.13.6F (4/14/2014), at 1188 |

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| Cisco IOS 15.2<br><br>Effective date of registration:<br><br>11/24/2014 | **Usage Guidelines** This command provides counter information for SNMP operations. It also displays the chassis ID string defined with the **snmp-server chassis-id** global configuration command.<br><br>**Command Examples** The following is sample output from the **show snmp** command:<br><br>```
Router# show snmp
Chassis: 12161083
0 SNMP packets input
    0 Bad SNMP version errors
    0 Unknown community name
    0 Illegal operation for community name supplied
    0 Encoding errors
    0 Number of requested variables
    0 Number of altered variables
    0 Get-request PDUs
    0 Get-next PDUs
    0 Set-request PDUs
    0 Input queue packet drops (Maximum queue size 1000)
0 SNMP packets output


    0 Too big errors (Maximum packet size 1500)
    0 No such name errors
    0 Bad values errors
    0 General errors
    0 Response PDUs
    0 Trap PDUs
SNMP logging: enabled
```<br><br>Cisco IOS SNMP Support Command Reference (2011), at 95-96 | **Configuring SNMP**                    **Chapter 37  SNMP**<br><br>```
8 SNMP packets input
    0 Bad SNMP version errors
    0 Unknown community name
    0 Illegal operation for community name supplied
    0 Encoding errors
    8 Number of requested variables
    0 Number of altered variables
    4 Get-request PDUs
    4 Get-next PDUs
    0 Set-request PDUs
21 SNMP packets output
    0 Too big errors
    0 No such name errors
    0 Bad value errors
    0 General errors
    8 Response PDUs
    0 Trap PDUs
SNMP logging: enabled
    Logging to taccon.162
SNMP agent enabled
switch(config)#
```<br><br>Arista User Manual v. 4.13.6F (4/14/2014), at 1896 |
| Cisco IOS 15.2<br><br>Effective date of registration:<br><br>11/24/2014 | **Command Examples** This example shows the output from the **show port-security** command when you do not enter any options:<br><br>```
Router# show port-security
Secure Port   MaxSecureAddr  CurrentAddr  SecurityViolation  Security
Action
              (Count)        (Count)      (Count)
---------------------------------------------------------------------
   Fa5/1      11             11           0                  Shutdown
   Fa5/5      15             5            0                  Restrict
   Fa5/11     5              4            0                  Protect

Total Addresses in System: 21
Max Addresses limit in System: 128
Router#
```<br><br>Cisco IOS Security Command Reference Commands S to Z (July 2011), at 692 | **Example**<br>• These commands enable MAC security on Ethernet interface 7, set the maximum number of assigned MAC addresses to 2, assigns two static MAC addresses to the interface, and clears the dynamic MAC addresses for the interface.<br><br>```
switch(config)#interface ethernet 7
switch(config-if-Et7)#switchport port-security
switch(config-if-Et7)#switchport port-security maximum 2
switch(config-if-Et7)#exit
switch(config)#mac address-table static 0034.24c2.8f11 vlan 10 interface ethernet 7
switch(config)#mac address-table static 4464.842d.17ce vlan 10 interface ethernet 7
switch(config)#clear mac address-table dynamic interface ethernet 7
switch(config)#show port-security
Secure Port   MaxSecureAddr  CurrentAddr  SecurityViolation  Security Action
              (Count)        (Count)      (Count)
---------------------------------------------------------------------
   Et7        2              2            0                  Shutdown
---------------------------------------------------------------------
```<br><br>Arista User Manual v. 4.13.6F (4/14/2014), at 624 |

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Cisco IOS 15.4 Effective date of registration: 11/26/2014	```Router# show interface cbr 6/0
CBR6/0 is up, line protocol is up
Hardware is DCU
MTU 0 bytes, BW 1544 Kbit, DLY 0 usec, rely 255/255, load 248/255
Encapsulation ET_ATMCES_T1, loopback not set
Last input 00:00:00, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Queueing strategy: fifo
Output queue 0/0, 0 drops; input queue 0/75, 0 drops
5 minute input rate 1507000 bits/sec, 3957 packets/sec
5 minute output rate 1507000 bits/sec, 3955 packets/sec
3025960 packets input, 142220120 bytes, 0 no buffer
Received 0 broadcasts, 0 runts, 0 giants
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
3030067 packets output, 142413149 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 output buffer failures, 0 output buffers swapped out``` The table below describes the fields shown in the display. Cisco IOS Asynchronous Transfer Mode Command Reference (2013), at 460	```switch#show interfaces ethernet 1
Ethernet1 is up, line protocol is up (connected)
Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff)
MTU 9212 bytes, BW 10000000 Kbit
Full-duplex, 10Gb/s, auto negotiation: off
Last clearing of "show interface" counters never
5 minutes input rate 301 bps (0.0% with framing), 0 packets/sec
5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec
2285370854005 packets input, 225028582832583 bytes
Received 29769609741 broadcasts, 3073437605 multicast
113 runts, 1 giants
118 input errors, 117 CRC, 0 alignment, 18 symbol
27511409 PAUSE input
335031607678 packets output, 27845413138330 bytes
Sent 14282316688 broadcasts, 54045824072 multicast
108 output errors, 0 collisions
0 late collision, 0 deferred
0 PAUSE output``` Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 437

Copyright Registration Information	Cisco	Arista
| Cisco IOS 15.4<br><br>Effective date of registration: 11/26/2014 | ```
Router# show interfaces
Ethernet0/0 is up, line protocol is up
  Hardware is AmdP2, address is aabb.cc03.6c00 (bia aabb.cc03.6c00)
  Internet address is 172.17.1.1/16
  MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output 00:00:06, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     0 packets input, 0 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
     0 input packets with dribble condition detected
     11 packets output, 1648 bytes, 0 underruns
     0 output errors, 0 collisions, 1 interface resets
     0 babbles, 0 late collision, 0 deferred
     0 lost carrier, 0 no carrier
     0 output buffer failures, 0 output buffers swapped out
```<br><br>Cisco Configuration Fundamentals Configuration Guide, Cisco IOS Release 15M&T (2013), at 44 | ```
switch#show interfaces ethernet 1
Ethernet1 is up, line protocol is up (connected)
  Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff)
  MTU 9212 bytes, BW 10000000 Kbit
  Full-duplex, 10Gb/s, auto negotiation: off
  Last clearing of "show interface" counters never
  5 minutes input rate 301 bps (0.0% with framing), 0 packets/sec
  5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec
     2285370854005 packets input, 225028582832583 bytes
     Received 29769609741 broadcasts, 3073437605 multicast
     113 runts, 1 giants
     118 input errors, 117 CRC, 0 alignment, 18 symbol
     27511409 PAUSE input
     335031607678 packets output, 27845413138330 bytes
     Sent 14282316688 broadcasts, 54045824072 multicast
     108 output errors, 0 collisions
     0 late collision, 0 deferred
     0 PAUSE output
```<br><br>Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 437 |
| Cisco IOS 15.4<br><br>Effective date of registration: 11/26/2014 | Use the **show interface** *interface-type interface-number* command to display the information and statistics for Ethernet 0 on R4.<br><br>```
R4> show interface ethernet 0
Ethernet0 is up, line protocol is up
  Hardware is Lance, address is 00e0.1eb8.eb0e (bia 00e0.1eb8.eb0e)
```<br>The MAC address for Ethernet 0 on R4 is 00e0.1eb8.eb0e. The format of the client identifier for this interface is nullcisco-00e0.1eb8.eb0e-et0.<br><br>Cisco Configuration Fundamentals Configuration Guide, Cisco IOS Release 15M&T (2013), at 81 | This command assigns the MAC address of 001c.2804.17e1 to Ethernet interface 7, then displays interface parameters, including the assigned address.<br><br>```
switch(config)#interface ethernet 7
switch(config-if-Et7)#mac-address 001c.2804.17e1
switch(config-if-Et7)#show interface ethernet 7
Ethernet3 is up, line protocol is up (connected)
  Hardware is Ethernet, address is 001c.2804.17e1 (bia 001c.7312.02e2)
```<br><br>Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 437 |

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Cisco IOS 15.4
 	
Effective date of registration: 11/26/2014
	show ip igmp snooping
	
	To display the Internet Group Management Protocol (IGMP) snooping configuration of a device, use the show ip igmp snoopingcommand in user EXEC or privileged EXEC mode.
	
	show ip igmp snooping [groups [count| vlan *vlan-id* [*ip-address*| count]]| mrouter [[vlan *vlan-id*]| [bd *bd-id*]] | querier| vlan v*lan-id*| bd *bd-id*]
	
	Cisco IOS Multicast Command Reference at 625 (2013)
	
	The following is sample output from the **show ip igmp snooping** command:
	
	``Router# show ip igmp snooping
	
	Global IGMP Snooping configuration:
	----------------------------------- 	
	IGMP snooping : Enabled
	IGMPv3 snooping (minimal) : Enabled
	Report suppression : Enabled
	TCN solicit query : Disabled
	TCN flood query count : 2
	Last Member Query Interval : 1000```
	
	IOS Multicast Command Reference (2013), at 625
		IGMP Snooping Status
		
		The show ip igmp snooping command displays the Internet Group Management Protocol (IGMP snooping configuration of a device.
		
		Example
		• This command displays the switch's IGMP snooping configuration.
		``switch>show ip igmp snooping
		   Global IGMP Snooping configuration:
		   -- 	
		   IGMP snooping : Enabled
		   Robustness variable : 2```
		
		Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 1785

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

Copyright Registration Information	Cisco	Arista
| Cisco IOS 15.4<br><br>Effective date of registration:<br>11/26/2014 | **show interfaces transceiver**<br><br>To display information about the optical transceivers that have digital optical monitoring (DOM) enabled, use the showinterfacestransceiver command in privileged EXEC mode.<br><br>Catalyst 6500 Series Switches and Cisco 7600 Series Routers<br>show interfaces [interface interface-number] transceiver [threshold violations\| properties] [detail\| module number]<br><br>Cisco 7200 VXR<br>show interfaces [interface interface-number] transceiver<br><br>Cisco ASR 901 Routers<br>show interfaces [interface interface-number] transceiver [threshold {table \| violations} \| detail \| supported-list]<br><br>Cisco IOS Interfaces and Hardware Component Command Reference (2013), at 1878<br><br>**Examples**    This example shows how to display transceiver information:<br><br>```
Router# show interfaces transceiver
If device is externally calibrated, only calibrated values are printed.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
NA or N/A: not applicable, Tx: transmit, Rx: receive.
mA: milliamperes, dBm: decibels (milliwatts).
                                        Optical  Optical
           Temperature Voltage Current  Tx Power Rx Power
Port       (Celsius)   (Volts) (mA)     (dBm)    (dBm)
-------    ----------- ------- -------  -------- --------
Gi1/1      40.6        5.09    0.4      -25.2    N/A
Gi2/1      35.5        5.05    0.1      -29.2    N/A
Gi2/2      49.5        3.30    0.0      7.1      -18.7
```<br><br>Cisco IOS Interfaces and Hardware Component Command Reference (2013), at 1879 | **show interfaces transceiver**<br><br>The show interfaces transceiver command displays operational transceiver data for the specified interfaces.<br><br>Platform        all<br>Command Mode    EXEC<br><br>Command Syntax<br>show interfaces [INTERFACE] transceiver [DATA_FORMAT]<br><br>. . .<br><br>Examples<br>• This command displays transceiver data on Ethernet interfaces 1 through 4.<br><br>```
switch>show interfaces ethernet 1-4 transceiver
If device is externally calibrated, only calibrated values are printed.
N/A: not applicable, Tx: transmit, Rx: receive.
mA: milliamperes, dBm: decibels (milliwatts).
                           Bias     Optical  Optical
       Temp     Voltage   Current  Tx Power Rx Power Last Update
Port   (Celsius) (Volts)  (mA)     (dBm)    (dBm)    (Date Time)
-----  --------- -------  -------- -------- -------- --------------------
Et1    34.17     3.30     6.75     -2.41    -2.83    2011-12-02 16:18:48
Et2    35.08     3.30     6.75     -2.23    -2.06    2011-12-02 16:18:42
Et3    36.72     3.30     7.20     -2.02    -2.14    2011-12-02 16:18:49
Et4    35.91     3.30     6.92     -2.20    -2.23    2011-12-02 16:18:45
switch>
```<br><br>Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 451 |
| Cisco IOS 15.4

Effective date of registration:
11/26/2014 | start-ip   Starting IP address that defines the range of addresses in the address pool.

end-ip   Ending IP address that defines the range of addresses in the address pool.

Cisco IOS IP Addressing Services Command Reference at 22 (2011) | start_addr   The starting IP address that defines the range of addresses in the address pool (IPv4 addresses in dotted decimal notation).

end_addr   The ending IP address that defines the range of addresses in the address pool. (IPv4 addresses in dotted decimal notation).

Arista User Manual v. 4.14.3F (Rev. 2) at 1278 (October 2, 2014) |

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	The following is sample output from the **show ip ospf** command when entered without a specific OSPF process ID:
	
	Router# `show ip ospf`
	
	Routing Process "ospf 201" with ID 10.0.0.1 and Domain ID 10.20.0.1
	Supports only single TOS(TOS0) routes
	Supports opaque LSA
	SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
	Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
	LSA group pacing timer 100 secs
	Interface flood pacing timer 55 msecs
	Retransmission pacing timer 100 msecs
	Number of external LSA 0. Checksum Sum 0x0
	Number of opaque AS LSA 0. Checksum Sum 0x0
	Number of DCbitless external and opaque AS LSA 0
	Number of DoNotAge external and opaque AS LSA 0
	Number of areas in this router is 2. 2 normal 0 stub 0 nssa
	External flood list length 0
	  Area BACKBONE(0)
	    Number of interfaces in this area is 2
	    Area has message digest authentication
	    SPF algorithm executed 4 times
	    Area ranges are
	    Number of LSA 4. Checksum Sum 0x29BEB
	    Number of opaque link LSA 0. Checksum Sum 0x0
	    Number of DCbitless LSA 3
	    Number of indication LSA 0
	    Number of DoNotAge LSA 0
	    Flood list length 0
	  Area 172.16.26.0
	    Number of interfaces in this area is 0
	    Area has no authentication
	    SPF algorithm executed 1 times
	    Area ranges are
	      192.168.0.0/16 Passive Advertise
	    Number of LSA 1. Checksum Sum 0x44FD
	    Number of opaque link LSA 0. Checksum Sum 0x0
	    Number of DCbitless LSA 1
	    Number of indication LSA 1
	    Number of DoNotAge LSA 0
	    Flood list length 0
	
	Cisco IOS IP Routing:OSPF Command Reference (2013), at 174
		switch#`show ip ospf`
		Routing Process "ospf 1" with ID 10.168.103.1
		 Supports opaque LSA
		 Maximum number of LSA allowed 12000
		  Threshold for warning message 75%
		  Ignore-time 5 minutes, reset-time 5 minutes
		  Ignore-count allowed 5, current 0
		 It is an area border router
		 Hold time between two consecutive SPFs 5000 msecs
		 SPF algorithm last executed 00:00:09 ago
		 Minimum LSA interval 5 secs
		 Minimum LSA arrival 1000 msecs
		 Number of external LSA 0. Checksum Sum 0x000000
		 Number of opaque AS LSA 0. Checksum Sum 0x000000
		
		Number of LSA 27.
		Number of areas in this router is 3. 3 normal 0 stub 0 nssa
		  Area BACKBONE(0.0.0.0)
		    Number of interfaces in this area is 2
		    It is a normal area
		    Area has no authentication
		    SPF algorithm executed 153 times
		    Number of LSA 8. Checksum Sum 0x03e13a
		    Number of opaque link LSA 0. Checksum Sum 0x000000
		  Area 0.0.0.2
		    Number of interfaces in this area is 1
		    It is a normal area
		    Area has no authentication
		    SPF algorithm executed 153 times
		    Number of LSA 11. Checksum Sum 0x054e57
		    Number of opaque link LSA 0. Checksum Sum 0x000000
		  Area 0.0.0.3
		    Number of interfaces in this area is 1
		    It is a normal area
		    Area has no authentication
		    SPF algorithm executed 5 times
		    Number of LSA 6. Checksum Sum 0x02a401
		    Number of opaque link LSA 0. Checksum Sum 0x000000
		
		Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 1391-1392

Cisco IOS 15.4 Effective date of registration: 11/26/2014		

Copyright Registration Information	Cisco	Arista
| Cisco IOS 15.4<br><br>Effective date of registration: 11/26/2014 | **Examples**  The following is sample output from the **show snmp** command:<br><br>```
Router# show snmp
Chassis: 12161083
0 SNMP packets input
    0 Bad SNMP version errors
    0 Unknown community name
    0 Illegal operation for community name supplied
    0 Encoding errors
    0 Number of requested variables
    0 Number of altered variables
    0 Get-request PDUs
    0 Get-next PDUs
    0 Set-request PDUs
    0 Input queue packet drops (Maximum queue size 1000)
0 SNMP packets output
    0 Too big errors (Maximum packet size 1500)
    0 No such name errors
    0 Bad values errors
    0 General errors
    0 Response PDUs
    0 Trap PDUs
SNMP logging: enabled
    SNMP Trap Queue: 0 dropped due to resource failure.
```<br><br>Cisco IOS SNMP Support Command Reference (2013), at 83 | **Example**<br>• This command configures *xyz-1234* as the chassis-ID string, then displays the result.<br><br>```
switch(config)#snmp-server chassis-id xyz-1234
switch(config)#show snmp
    Chassis: xyz-1234            <---chassis ID

    8 SNMP packets input
        0 Bad SNMP version errors
        0 Unknown community name
        0 Illegal operation for community name supplied
        0 Encoding errors
        8 Number of requested variables
        0 Number of altered variables
        4 Get-request PDUs
        4 Get-next PDUs
        0 Set-request PDUs
   21 SNMP packets output
        0 Too big errors
        0 No such name errors
        0 Bad value errors
        0 General errors
        8 Response PDUs
        0 Trap PDUs
SNMP logging: enabled
        Logging to taccon.162
SNMP agent enabled
switch(config)#
```<br><br>Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 1967-68 |

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014		IGMP version	2
Startup query interval	30 seconds
Startup query count	2
Robustness value	2
Querier timeout	255 seconds
Query timeout	255 seconds
Query max response time	10 seconds
Query interval	125 seconds
Last member query response interval	1 second
Last member query count	2
Group membership timeout	260 seconds
Report link local multicast groups	Disabled
Enforce router alert	Disabled
Immediate leave	Disabled | Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide (2012), at 24	``` Current IGMP router version: 2 IGMP query interval: 125 seconds IGMP max query response time: 100 deciseconds Last member query response interval: 10 deciseconds Last member query response count: 2 IGMP querier: 172.17.26.1 Robustness: 2 Require router alert: enabled Startup query interval: 312 deciseconds Startup query count: 2 General query timer expiry: 00:00:22 Multicast groups joined: 239.255.255.250 ``` Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 1850

Copyright Registration Information	Cisco	Arista
| Cisco NX-OS 6.2<br><br>Effective date of registration: 11/13/2014 | **Examples**<br><br>This example shows how to display VTP interface switchport information on the device:<br><br>```
switch# show interface switchport
Name: Ethernet8/11
    Switchport: Enabled
    Switchport Monitor: Not enabled
    Operational Mode: trunk
    Access Mode VLAN: 1 (default)
    Trunking Native Mode VLAN: 1 (default)
    Trunking VLANs Enabled: 1,10,20-30
    Pruning VLANs Enabled: 2-1001
    Administrative private-vlan primary host-association: none
    Administrative private-vlan secondary host-association: none
    Administrative private-vlan primary mapping: none
    Administrative private-vlan secondary mapping: none
    Administrative private-vlan trunk native VLAN: none
    Administrative private-vlan trunk encapsulation: dot1q
    Administrative private-vlan trunk normal VLANs: none
    Administrative private-vlan trunk private VLANs: none
    Operational private-vlan: none
switch#
```<br><br>Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 44 | **Example**<br><br>• These commands create the trunk mode allowed VLAN list of 6-10 for Ethernet interface 14, then verifies the VLAN list.<br><br>```
switch(config)#interface ethernet 14
switch(config-if-Et14)#switchport trunk allowed vlan 6-10
switch(config-if-Et14)#show interfaces ethernet 14 switchport
Name: Et14
    Switchport: Enabled
    Administrative Mode: trunk
    Operational Mode: trunk
    Access Mode VLAN: 1 (inactive)
    Trunking Native Mode VLAN: 1 (inactive)
    Administrative Native VLAN tagging: disabled
    Trunking VLANs Enabled: 6-10
    Trunk Groups:

switch(config-if-Et14)#
```<br><br>Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 798 |
| Cisco NX-OS 6.2<br><br>Effective date of registration: 11/13/2014 | **Examples**<br><br>This example shows how to display information about the specified VLAN. This command displays statistical information gathered on the VLAN at 1-minute intervals:<br><br>```
switch# show interface vlan 5
Vlan5 is administratively down, line protocol is down
  Hardware is EtherSVI, address is  0000.0000.0000
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
   reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive not supported
  ARP type: ARPA
  Last clearing of "show interface" counters 01:21:55
  1 minute input rate 0 bytes/sec, 0 packets/sec
  1 minute output rate 0 bytes/sec, 0 packets/sec
  L3 Switched:
    input: 0 pkts, 0 bytes - output: 0 pkts, 0 bytes
  L3 in Switched:
    ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes
  L3 out Switched:
    ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes
```<br><br>Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 44 | **Example**<br><br>• This command display configuration and status information for Ethernet interface 1 and 2.<br><br>```
switch>show interfaces ethernet 1-2
Ethernet1 is up, line protocol is up (connected)
  Hardware is Ethernet, address is 001c.2481.7647 (bia 001c.2481.7647)
  Description: mkt.1
  MTU 9212 bytes, BW 10000000 Kbit
  Full-duplex, 10Gb/s, auto negotiation: off
  Last clearing of "show interface" counters never
  5 seconds input rate 33.5 Mbps (0.3% with framing), 846 packets/sec
  5 seconds output rate 180 kbps (0.0% with framing), 55 packets/sec
    76437268 packets input, 94280286608 bytes
    Received 2208 broadcasts, 73358 multicast
    0 runts, 0 giants
    0 input errors, 0 CRC, 0 alignment, 0 symbol
    0 PAUSE input
    6184281 packets output, 4071319140 bytes
    Sent 2209 broadcasts, 345754 multicast
    0 output errors, 0 collisions
    0 late collision, 0 deferred
    0 PAUSE output
```<br><br>Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 437 |

CASE NO. 5:14-CV-05344-BLF

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 63	 Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 960
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 63	 Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 983

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Copyright Registration Information	Cisco	Arista
| Cisco NX-OS 6.2<br><br>Effective date of registration: 11/13/2014 | ```
Spanning tree enabled protocol rstp
Root ID    Priority    32770
           Address     000d.eca3.9f01
           Cost        4
           Port        4105 (port-channel10)
           Hello Time  2  sec  Max Age 20 sec  Forward Delay 15 sec

Bridge ID  Priority    32770  (priority 32768 sys-id-ext 2)
           Address     0022.5579.7641
           Hello Time  2  sec  Max Age 20 sec  Forward Delay 15 sec

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- -----------------------
Po10             Root FWD 2         128.4105 (vPC peer-link) P2p
Po20             Desg FWD 1         128.4115 (vPC) P2p
Po30             Root FWD 1         128.4125 (vPC) P2p
```<br><br>Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 73 | ```
Spanning tree enabled protocol rstp
Root ID    Priority    32768
           Address     001c.7301.07b9
           Cost        1999 (Ext) 0 (Int)
           Port        101 (Port-Channel2)
           Hello Time  2.000 sec  Max Age 20 sec  Forward Delay 15 sec

Bridge ID  Priority    32768  (priority 32768 sys-id-ext 0)
           Address     001c.7304.195b
           Hello Time  2.000 sec  Max Age 20 sec  Forward Delay 15 sec

Interface        Role       State      Cost   Prio.Nbr Type
---------------- ---------- ---------- ------ -------- -----
Et4              designated forwarding 20000  128.4    P2p
Et5              designated forwarding 20000  128.5    P2p
Et6              designated forwarding 20000  128.6    P2p
Et23             designated forwarding 20000  128.23   P2p
Et26             designated forwarding 20000  128.26   P2p
Et32             designated forwarding 2000   128.32   P2p
```<br><br>Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 983 |

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

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	This example shows how to display detailed information about the STP configuration:
	
	``
	switch(config)# show spanning-tree detail
	
	VLAN0001 is executing the rstp compatible Spanning Tree protocol
	  Bridge Identifier has priority 32768, sysid 1, address 0022.5579.7641
	  Configured hello time 2, max age 20, forward delay 15
	  Current root has priority 32769, address 000d.eca3.9f01
	  Root port is 4105 (port-channel10), cost of root path is 4
	  Topology change flag not set, detected flag not set
	  Number of topology changes 1 last change occurred 20:24:36 ago
	          from port-channel10
	  Times: hold 1, topology change 35, notification 2
	          hello 2, max age 20, forward delay 15
	  Timers: hello 0, topology change 0, notification 0
	
	 Port 4105 (port-channel10, vPC Peer-link) of VLAN0001 is root forwarding
	   Port path cost 2, Port priority 128, Port Identifier 128.4105
	   Designated root has priority 32769, address 000d.eca3.9f01
	   Designated bridge has priority 32769, address 0022.5579.7341
	   Designated port id is 128.4105, designated path cost 2
	   Timers: message age 16, forward delay 0, hold 0
	   Number of transitions to forwarding state: 1
	   Link type is point-to-point by default
	
	   BPDU: sent 36729, received 36739
	
	 Port 4115 (port-channel20, vPC) of VLAN0001 is designated forwarding
	   Port path cost 1, Port priority 128, Port Identifier 128.4115
	   Designated root has priority 32769, address 000d.eca3.9f01
	   Designated bridge has priority 32769, address 0022.5579.7341
	   Designated port id is 128.4115, designated path cost 2
	   Timers: message age 0, forward delay 0, hold 0
	   Number of transitions to forwarding state: 0
	   Link type is point-to-point by default
	   BPDU: sent 0, received 0
	
	 Port 4125 (port-channel30, vPC) of VLAN0001 is root forwarding
	   Port path cost 1, Port priority 128, Port Identifier 128.4125
	   Designated root has priority 32769, address 000d.eca3.9f01
	   Designated bridge has priority 32769, address 000d.eca3.9f01
	   Designated port id is 128.4125, designated path cost 0
	   Timers: message age 0, forward delay 0, hold 0
	   Number of transitions to forwarding state: 0
	   Link type is point-to-point by default
	   BPDU: sent 0, received 0
	``
	
	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 73
		• This command displays STP data, including an information block for each interface running STP.
		
		``
		switch>show spanning-tree vlan 1000 detail
		  MST0 is executing the rstp Spanning Tree protocol
		  Bridge Identifier has priority 32768, sysid 0, address 001c.7304.195b
		  Configured hello time 2.000, max age 20, forward delay 15, transmit hold-count 6
		  Current root has priority 32768, address 001c.7301.07b9
		  Root port is 101 (Port-Channel2), cost of root path is 1999 (Ext) 0 (Int)
		  Number of topology changes 4109 last change occurred 1292651 seconds ago
		          from Ethernet13
		
		 Port 4 (Ethernet4) of MST0 is designated forwarding
		   Port path cost 20000, Port priority 128, Port Identifier 128.4.
		   Designated root has priority 32768, address 001c.7301.07b9
		   Designated bridge has priority 32768, address 001c.7304.195b
		   Designated port id is 128.4, designated path cost 1999 (Ext) 0 (Int)
		   Timers: message age 1, forward delay 15, hold 20
		   Number of transitions to forwarding state: 1
		   Link type is point-to-point by default, Internal
		   BPDU: sent 452252, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0
		   Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400
		
		 Port 5 (Ethernet5) of MST0 is designated forwarding
		   Port path cost 20000, Port priority 128, Port Identifier 128.5.
		   Designated root has priority 32768, address 001c.7301.07b9
		   Designated bridge has priority 32768, address 001c.7304.195b
		   Designated port id is 128.5, designated path cost 1999 (Ext) 0 (Int)
		   Timers: message age 1, forward delay 15, hold 20
		   Number of transitions to forwarding state: 1
		   Link type is point-to-point by default, Internal
		   BPDU: sent 1006266, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0
		   Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400
		``
		
		Arista User Manual v. 4.14.3F (Rev. 2) (October 2, 2014), at 984

Cisco NX-OS 6.2 Effective date of registration: 11/13/2014		

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	This example shows how to display STP information about a specified interface when you are running Rapid PVST+:
	
	``
	switch(config)# show spanning-tree interface ethernet 8/2
	
	Vlan Role Sts Cost Prio.Nbr Type
	---------------- ---- --- --------- -------- --------------------------------
	VLAN0001 Altn BLK 20000 128.1025 P2p
	
	VLAN0002 Desg FWD 20000 128.1025 P2p
	``
	
	This example shows how to display STP information about a specified interface when you are running MST:
	
	``
	switch(config)# show spanning-tree interface ethernet 2/50
	
	Mst Instance Role Sts Cost Prio.Nbr Type
	---------------- ---- --- --------- -------- --------------------------------
	MST0000 Desg FWD 20000 128.1281 P2p
	``
	
	This example shows how to display detailed STP information about a specified interface when you are running Rapid PVST+:
	
	``
	switch(config)# show spanning-tree interface ethernet 8/1 detail
	
	Port 1025 (Ethernet8/1) of VLAN0001 is alternate blocking
	   Port path cost 20000, Port priority 128, Port Identifier 128.1025
	   Designated root has priority 28672, address 0018.bad8.239d
	   Designated bridge has priority 28672, address 0018.bad8.239d
	   Designated port id is 128.1281, designated path cost 0
	   Timers: message age 15, forward delay 0, hold 0
	   Number of transitions to forwarding state: 1
	   Link type is point-to-point by default
	   The port type is network by default.
	   BPDU: sent 4657, received 188
	
	Port 1025 (Ethernet8/1) of VLAN0002 is designated forwarding
	   Port path cost 20000, Port priority 128, Port Identifier 128.1025
	   Designated root has priority 32770, address 0018.bad7.fc15
	   Designated bridge has priority 32770, address 0018.bad7.fc15
	   Designated port id is 128.1025, designated path cost 0
	   Timers: message age 0, forward delay 0, hold 0
	   Number of transitions to forwarding state: 1
	   Link type is point-to-point by default
	   The port type is network by default.
	   BPDU: sent 4838, received 0
	``
	
	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 77.
		Examples
		• This command displays an STP table for Ethernet 5 interface.
		
		``
		switch>show spanning-tree interface ethernet 5
		Instance Role State Cost Prio.Nbr Type
		-------------- ---------- ---------- --------- -------- --------------------
		MST0 designated forwarding 20000 128.5 P2p
		switch>
		``
		
		• This command displays a data block for Ethernet interface 5.
		
		``
		switch>show spanning-tree interface ethernet 5 detail
		Port 5 (Ethernet5) of MST0 is designated forwarding
		   Port path cost 20000, Port priority 128, Port Identifier 128.5.
		   Designated root has priority 32768, address 001c.7301.07b9
		   Designated bridge has priority 32768, address 001c.7304.195b
		   Designated port id is 128.5, designated path cost 1999 (Ext) 0 (Int)
		   Timers: message age 1, forward delay 15, hold 20
		   Number of transitions to forwarding state: 1
		   Link type is point-to-point by default, Internal
		   BPDU: sent 1008766, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0
		   Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400
		
		switch>
		``
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 988.

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Cisco column:

```
switch# show spanning-tree mst

##### MST0    vlans mapped:   1-4094
Bridge         address 0018.bad7.fc15  priority      32768 (32768 sysid 0)
Root                      this switch for the CIST
Regional Root  this switch
Operational    hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured     hello time 2 , forward delay 15, max age 20, max hops   20

Interface        Role Sts Cost     Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Eth8/1           Desg FWD 20000     128 1025 P2p
Eth8/2           Desg FWD 20000     128 1026 P2p
```

This example shows how to display STP information about a specific MST instance:

```
switch)# show spanning-tree mst 0

##### MST0    vlans mapped:   1-4094
Bridge         address 0018.bad7.fc15  priority      32768 (32768 sysid 0)
Root                      this switch for the CIST
Regional Root  this switch
Operational    hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured     hello time 2 , forward delay 15, max age 20, max hops   20

Interface        Role Sts Cost     Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Eth8/1           Desg FWD 20000     128.1025 P2p
Eth8/2           Desg FWD 20000     128.1026 P2p
```

This example shows how to display detailed STP information about the MST protocol:

```
switch)# show spanning-tree mst detail

##### MST0    vlans mapped:   1-4094
Bridge         address 0018.bad7.fc15  priority      32768 (32768 sysid 0)
Root                      this switch for the CIST
Regional Root  this switch
Operational    hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured     hello time 2 , forward delay 15, max age 20, max hops   20

Eth8/1 of MST0 is designated forwarding
Port info             port id      128.1025 priority    128   cost   20000
Designated root          address 0018.bad7.fc15  priority  32768  cost   0
Design. regional root address 0018.bad7.fc15  priority  32768  cost   0
Designated bridge        address 0018.bad7.fc15  priority 32768  port id 128.1025
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1379, received 3

Eth8/2 of MST0 is designated forwarding
Port info             port id      128.1026 priority    128   cost   20000
Designated root          address 0018.bad7.fc15  priority  32768  cost   0
Design. regional root address 0018.bad7.fc15  priority  32768  cost   0
Designated bridge        address 0018.bad7.fc15  priority 32768  port id 128.1026
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1380, received 2
```

Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 80.

Arista column:

Examples
- This command displays interface data blocks for MST instance 3.

```
switch>show spanning-tree mst 3 detail
##### MST3    vlans mapped:   3
Bridge        address 0011.2233.4402  priority      32771 (32768 sysid 3)
Root          address 0011.2233.4401  priority      32771 (32768 sysid 3)

Ethernet1 of MST3 is root forwarding
Port info             port id         128.1 priority    128  cost     2000
Designated root       address 0011.2233.4401 priority 32768 cost      0
Designated bridge     address 0011.2233.4401 priority 32768 port id   128.1

Ethernet2 of MST3 is alternate discarding
Port info             port id         128.2 priority    128  cost     2000
Designated root       address 0011.2233.4401 priority 32768 cost      0
Designated bridge     address 0011.2233.4401 priority 32768 port id   128.2

Ethernet3 of MST3 is designated forwarding
Port info             port id         128.3 priority    128  cost     2000
Designated root       address 0011.2233.4401 priority 32768 cost      2000
Designated bridge     address 0011.2233.4402 priority 32768 port id   128.3
```

- This command displays interface tables for all MST instances.

```
switch>show spanning-tree mst
##### MST0    vlans mapped:   1,4-4094
Bridge         address 0011.2233.4402  priority      32768 (32768 sysid 0)
Root           address 0011.2233.4401  priority      32768 (32768 sysid 0)
Regional Root  address 0011.2233.4401  priority      32768 (32768 sysid 0)

Interface        Role       State      Cost    Prio.Nbr Type
---------------- ---------- ---------- ------- -------- --------
Et1              root       forwarding 2000    128.1    P2p
Et2              alternate  discarding 2000    128.2    P2p
Et3              designated forwarding 2000    128.3    P2p
Et4              designated forwarding 2000    128.4    P2p

##### MST2 vlans mapped: 2
Bridge         address 0011.2233.4402  priority       8194 (8192 sysid 2)
Root           this switch for MST2

Interface        Role       State      Cost    Prio.Nbr Type
---------------- ---------- ---------- ------- -------- --------
Et1              designated forwarding 2000    128.1    P2p
Et2              designated forwarding 2000    128.2    P2p
Et3              designated forwarding 2000    128.3    P2p
Et4              designated forwarding 2000    128.4    P2p

##### MST3 vlans mapped: 3
Bridge         address 0011.2233.4402  priority      32771 (32768 sysid 3)
Root           address 0011.2233.4401  priority      32771 (32768 sysid 3)

Interface        Role       State      Cost    Prio.Nbr Type
---------------- ---------- ---------- ------- -------- --------
Et1              root       forwarding 2000    128.1    P2p
Et2              alternate  discarding 2000    128.2    P2p
Et3              designated forwarding 2000    128.3    P2p
Et4              designated forwarding 2000    128.4    P2p
```

Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 990.

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Effective date of registration: 11/13/2014

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	This example shows how to display information about the MST configuration: ``` switch)# show spanning-tree mst configuration Name: [mst-bldg-sj6/3] Revision: 1 Instances Configured: 3 Instance Vlans mapped -------- --- 0 1 2000 2-2000 4094 2001-4094 -- ``` This example shows how to display the MD5 digest included in the current MST configuration: ``` switch)# show spanning-tree mst configuration digest Name [mst-config] Revision 10 Instances configured 25 Digest 0X40D5ECA178C657835C83BBCB16723192 Pre-std Digest 0X27BF112A75B72781ED928D9EC5BB4251 ``` Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 81.	Examples • This command displays the MST region's VLAN-to-instance map. ``` switch>show spanning-tree mst configuration Name [] Revision 0 Instances configured 3 Instance Vlans mapped -------- --- 0 1,4-4094 2 2 3 3 -- switch> ``` • This command displays the MST region's configuration digest. ``` switch>show spanning-tree mst configuration digest Name [] Revision 0 Instances configured 1 Digest 0xAC36177F50283CD4B83821D8AB26DE62 switch> ``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 991.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	Examples This example shows how to display information for the root bridge: ``` switch(config)# show spanning-tree root MST Instance Root ID Cost Time Age Dly Root Port ------------ -------------- ---- -------------- -------------- MST0000 32768 0018.bad7.fc15 0 2 20 15 This bridge is root ``` Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 82-83.	Examples • This command displays a table of root bridge information. ``` switch>show spanning-tree root Root ID Root Hello Max Fwd Instance Priority MAC addr Cost Time Age Dly Root Port ---------- -------- -------------- ------ ---- --- --- ---------- MST0 32768 001c.7301.23de 0 2 20 15 Po937 MST101 32869 001c.7301.23de 3998 0 0 0 Po909 MST102 32870 001c.7301.23de 3998 0 0 0 Po911 switch> ``` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 994.

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Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	This example shows how to display information about the number of VLANs configured on the device:
	
	`switch# show vlan summary`
	
	`Number of existing VLANs         : 9`
	`Number of existing user VLANs    : 9`
	`Number of existing extended VLANs : 0`
	
	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 94.
		Example
		• This command displays the number of VLANs on the switch.
		
		`switch>show vlan summary`
		`Number of existing VLANs         : 18`
		
		`switch>`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 791.

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	Examples This example shows how to display information about all private VLANs on the device:
	
	`switch(config)# show vlan private-vlan`
	
	`Primary  Secondary  Type        Ports`
	`-------  ---------  ----------  ------------------------`
	`200      201        isolated    Eth2/26, Eth2/27`
	`200      202        community   Eth2/26, Eth2/28`
	
	Cisco Nexus 7000 Series NX-OS Interfaces Command Reference (2013), at 100.
		Example
		• This command displays the private VLANs.
		
		`switch>show vlan private-vlan`
		`Primary  Secondary  Type        Ports`
		`-------  ---------  ----------  ------------------------`
		`5        25         isolated`
		`5        26         isolated`
		`7        31         community`
		`7        32         isolated`
		`switch>`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 790.

Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	`BGP table version is 10, local router ID is 3.3.3.3` `Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best` `Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist` `Origin codes: i - IGP, e - EGP, ? - incomplete,	- multipath`  ` Network Next Hop Metric LocPrf Weight Path` `* i200.0.1.100/32 201.0.25.1 100 100 6553601 i` `*>e 201.0.13.1 0 6553601 i` `* i200.0.2.100/32 201.0.25.1 100 100 6553601 i` `*>e 201.0.13.1 0 6553601 i` `*>1200.0.3.100/32 0.0.0.0 100 32768 i` Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (2013), at 401.	`switch>show ip bgp neighbors 10.14.4.4 advertised-routes regexp _64502_` `BGP routing table information for VRF default` `Router identifier 172.24.78.191, local AS number 64498` `Route status codes: s - suppressed, * - valid, > - active, E - ECMP head, e - ECMP` `                    S - Stale` `Origin codes: i - IGP, e - EGP, ? - incomplete` `AS Path Attributes: Or-ID - Originator ID, C-LST - Cluster List, LL Nexthop - Link` `Local Nexthop` `   Network         Next Hop      Metric   LocPref Weight Path` `* >  10.99.31.0/24   10.88.202.1   333      100     -      (64502 64503) 99 i` `* >  10.99.41.0/24   10.88.202.1   333      100     -      (64502 64503) 99 i` `* >  10.99.99.0/24   10.88.202.1   333      100     -      (64502 64504) 99 i` Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1637.

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Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (2013), at 50.	 Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1860.
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	 Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-661.	 Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 632.

Copyright Registration Information	Cisco	Arista
| Cisco NX-OS 6.2<br><br>Effective date of registration: 11/13/2014 | **Examples** This example shows how to use the **show port-security address** command to view information about all MAC addresses secured by port security:<br><br>```
switch# show port-security address

Total Secured Mac Addresses in System (excluding one mac per port)     : 0
Max Addresses limit in System (excluding one mac per port) : 8192

--------------------------------------------------------------------
                        Secure Mac Address Table
--------------------------------------------------------------------
Vlan    Mac Address          Type          Ports       Remaining Age
                                                          (mins)
----    -----------          ------        -----       --------------
  1     0054.AAB3.770F        STATIC        port-channel1      0
  1     00EE.378A.ABCE        STATIC        Ethernet1/4        0
====================================================================
switch#
```<br><br>This example shows how to use the **show port-security address** command to view the MAC addresses secured by the port security feature on the Ethernet 1/4 interface:<br><br>```
switch# show port-security address interface ethernet 1/4
                  Secure Mac Address Table
--------------------------------------------------------------------
Vlan    Mac Address          Type          Ports       Remaining Age
                                                          (mins)
----    -----------          ------        -----       --------------
  1     00EE.378A.ABCE        STATIC        Ethernet1/4        0
--------------------------------------------------------------------
switch#
```<br><br>Cisco Nexus 7000 Series NX-OS Security Command Reference (2013), at SEC-664. | **Example**<br><br>• This command displays MAC addresses assigned to port-security protected interfaces.<br><br>```
switch>show port-security address
              Secure Mac Address Table
--------------------------------------------------------------------
Vlan    Mac Address          Type              Ports    Remaining Age
                                                          (mins)
----    -----------          ----              -----    -------------
  10    164f.29ae.4e14       SecureConfigured   Et7      N/A
  10    164f.29ae.4f11       SecureConfigured   Et7      N/A
  10    164f.320a.3a11       SecureConfigured   Et7      N/A
--------------------------------------------------------------------
Total Mac Addresses for this criterion: 3
switch>
```<br><br>Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 698. |

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration:
11/13/2014
	Examples This example shows how to display the EEE status on an interface:
	
	`switch# show interface ethernet2/6`
	`Ethernet2/6 is down (Link not connected)`
	`admin state is up, Dedicated Interface`
	`  Hardware: 10000 Ethernet, address: 0022.5579.de41 (bia 001b.54c1.af5d)`
	`  MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec`
	`    reliability 255/255, txload 1/255, rxload 1/255`
	`  Encapsulation ARPA, medium is broadcast`
	`  auto-duplex, auto-speed, media type is 10G`
	`  Beacon is turned off`
	`  Auto-Negotiation is turned off`
	`  Input flow-control is off, output flow-control is off`
	`  Auto-mdix is turned off`
	`  Rate mode is shared`
	`  Switchport monitor is off`
	`  EtherType is 0x8100`
	`  EEE (efficient-ethernet) : n/a`
	`  Last link flapped never`
	`  Last clearing of "show interface" counters never`
	`  0 interface resets`
	`  30 seconds input rate 0 bits/sec, 0 packets/sec`
	`  30 seconds output rate 0 bits/sec, 0 packets/sec`
	`  Load-Interval #2: 5 minute (300 seconds)`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 514.
		Example
		• This command assigns the MAC address of 001c.2804.17e1 to Ethernet interface 7, then displays interface parameters, including the assigned address.
		
		`switch(config)#interface ethernet 7`
		`switch(config-if-Et7)#mac-address 001c.2804.17e1`
		`switch(config-if-Et7)#show interface ethernet 7`
		`Ethernet3 is up, line protocol is up (connected)`
		`  Hardware is Ethernet, address is 001c.2804.17e1 (bia 001c.7312.02e2)`
		`  Description: b.e45`
		`  MTU 9212 bytes, BW 10000000 Kbit`
		`  Full-duplex, 10Gb/s, auto negotiation: off`
		`  Last clearing of "show interface" counters never`
		`  5 seconds input rate 7.84 kbps (0.0% with framing), 10 packets/sec`
		`  5 seconds output rate 270 kbps (0.0% with framing), 24 packets/sec`
		`    1363799 packets input, 222736140 bytes`
		`    Received 0 broadcasts, 290904 multicast`
		`    0 runts, 0 giants`
		`    0 input errors, 0 CRC, 0 alignment, 0 symbol`
		`    0 PAUSE input`
		`    2264927 packets output, 2348747214 bytes`
		`    Sent 0 broadcasts, 28573 multicast`
		`    0 output errors, 0 collisions`
		`    0 late collision, 0 deferred`
		`    0 PAUSE output`
		`switch(config-if-Et7)#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 437.

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

02099-00004/7151381.1

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	show ptp clock
	
	To display the Precision Time Protocol (PTP) clock information, use the show ptp clock command.
	
	   show ptp clock
	
	Syntax Description This command has no arguments or keywords.
	
	Defaults None
	
	Command Modes Any command mode
	
	SupportedUserRoles network-admin
	   network-operator
	   vdc-admin
	   vdc-operator
	
	Command History Release Modification
	   5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to display the PTP clock information:
	`switch# show ptp clock`
	`PTP Device Type: Boundary clock`
	`Clock Identity :   0:18:ba:ff:ff:d8: e:17`
	`Clock Domain: 0`
	`Number of PTP ports: 2`
	`Priority1 : 255`
	`Priority2 : 255`
	`Clock Quality:`
	`        Class : 248`
	`        Accuracy : 254`
	`        offset (log variance)  : 65535`
	`Offset From Master : 0`
	`Mean Path Delay : 0`
	`Steps removed : 1`
	`Local clock time:Sun Jan 15 20:57:29 2011`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 601.
		Show PTP Clock and Offset
		
		To display the Precision Time Protocol (PTP) local clock and offset, use the show ptp clock command.
		
		• The show ptp clock command displays the Precision Time Protocol (PTP) local clock and offset.
		`switch#show ptp clock`
		`PTP Mode: Boundary Clock`
		`Clock Identity: 0x00:1c:73:ff:ff:1e:83:24`
		`Clock Domain: 1`
		`Number of PTP ports: 24`
		`Priority1: 128`
		`Priority2: 128`
		`Clock Quality:`
		`    Class: 248`
		`    Accuracy: 0x30`
		`    OffsetScaledLogVariance:  0xffff`
		`Offset From Master: 0`
		`Mean Path Delay: 0`
		`Steps Removed: 0`
		`switch#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 275.

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	show ptp parent
	
	To display information about the parent and grand master of the Precision Time Protocol (PTP) clock, use the **show ptp parent** command.
	
	show ptp parent
	
	Syntax Description This command has no arguments or keywords.
	
	Defaults None
	
	Command Modes Any command mode
	
	SupportedUserRoles network-admin
	network-operator
	vdc-admin
	vdc-operator
	
	Command History Release Modification
	5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to display information about the parent and grand master of the PTP clock:
	`switch# show ptp parent`
	`Parent Clock:`
	`Parent Clock Identity:   0:18:ba:ff:ff:d8: e:16`
	`Parent Port Number: 1546`
	`Observed Parent Offset (log variance): N/A`
	`Observed Parent Clock Phase Change Rate: N/A`
	
	`Grandmaster Clock:`
	`Grandmaster Clock Identity:   0:18:ba:ff:ff:d8: e:16`
	`Grandmaster Clock Quality:`
	`   Class: 248`
	`   Accuracy: 254`
	`   Offset (log variance): 65535`
	`   Priority1: 255`
	`   Priority2: 255`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 607.
		Show PTP Parent Information
		
		To display information about the parent and grand master of the Precision Time Protocol (PTP) clock, use the **show ptp parent** command.
		
		• The show ptp parent command displays information about the parent and grand master of the Precision Time Protocol (PTP) clock.
		`switch# show ptp parent`
		`Parent Clock:`
		`Parent Clock Identity: 0x00:1c:73:ff:ff:00:72:40`
		`Parent Port Number: 0`
		`Parent IP Address: N/A`
		`Observed Parent Offset (log variance): N/A`
		`Observed Parent Clock Phase Change Rate: N/A`
		
		`Grandmaster Clock:`
		`Grandmaster Clock Identity: 0x00:1c:73:ff:ff:00:72:40`
		`Grandmaster Clock Quality:`
		`   Class: 248`
		`   Accuracy: 0x30`
		`   OffsetScaledLogVariance: 0xffff`
		`   Priority1: 128`
		`   Priority2: 128`
		`switch#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 275.

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

02099-00004/7151381.1

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	show ptp parent
	
	To display information about the parent and grand master of the Precision Time Protocol (PTP) clock, use the show ptp parent command.
	
	   show ptp parent
	
	Syntax Description This command has no arguments or keywords.
	
	Defaults None
	
	Command Modes Any command mode
	
	SupportedUserRoles network-admin
	network-operator
	vdc-admin
	vdc-operator
	
	Command History
	Release Modification
	5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to display information about the parent and grand master of the PTP clock:
	
	``
	switch# show ptp parent
	Parent Clock:
	Parent Clock Identity: 0:18:ba:ff:ff:d8: e:16
	Parent Port Number: 1546
	Observed Parent Offset (log variance): N/A
	Observed Parent Clock Phase Change Rate: N/A
	
	Grandmaster Clock:
	Grandmaster Clock Identity: 0:18:ba:ff:ff:d8: e:16
	Grandmaster Clock Quality:
	    Class: 248
	    Accuracy: 254
	    Offset (log variance): 65535
	    Priority1: 255
	    Priority2: 255
	``
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 607.
		show ptp parent
		
		The show ptp parent command displays information about the parent and grand master of the Precision Time Protocol (PTP) clock.
		
		Platform Arad, FM6000
		Command Mode Privileged EXEC
		
		Command Syntax
		  show ptp parent
		
		Examples
		• This command shows how to display information about the parent and master of the PTP clock.
		
		``
		switch# show ptp parent
		Parent Clock:
		Parent Clock Identity: 0x00:1c:73:ff:ff:00:72:40
		Parent Port Number: 0
		Parent IP Address: N/A
		Observed Parent Offset (log variance): N/A
		Observed Parent Clock Phase Change Rate: N/A
		
		Grandmaster Clock:
		Grandmaster Clock Identity: 0x00:1c:73:ff:ff:00:72:40
		Grandmaster Clock Quality:
		    Class: 248
		    Accuracy: 0x30
		    OffsetScaledLogVariance: 0xffff
		    Priority1: 128
		    Priority2: 128
		switch#
		``
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 352.

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

02099-00004/7151381.1

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	show ptp time-property
	
	To display the Precision Time Protocol (PTP) clock properties, use the show ptp time-property command.
	
	show ptp time-property
	
	Syntax Description This command has no arguments or keywords.
	
	Defaults None
	
	Command Modes Any command mode
	
	SupportedUserRoles network-admin
	network-operator
	vdc-admin
	vdc-operator
	
	Command History
	Release Modification
	5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to display the PTP clock properties:
	`switch# show ptp time-property`
	`PTP CLOCK TIME PROPERTY:`
	`  Current UTC Offset valid: 0`
	`  Current UTC Offset: 33`
	`  Leap59: 0`
	`  Leap61: 0`
	`  Time Traceable: 0`
	`  Frequency Traceable: 0`
	`  PTP Timescale: 0`
	`  Time Source: 0xA0(internal Osccilator)`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 611.
		Show PTP Clock Properties
		
		To display the Precision Time Protocol (PTP) clock properties, use the show ptp time-property command.
		
		• The show ptp time-property command displays the Precision Time Protocol (PTP) clock properties.
		`switch# show ptp time-property`
		`Current UTC offset valid: False`
		`Current UTC offset: 0`
		`Leap 59: False`
		`Leap 61: False`
		`Time Traceable: False`
		`Frequency Traceable: False`
		`PTP Timescale: False`
		`Time Source: 0x0`
		`switch#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 275-76.

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	show ptp time-property
	
	To display the Precision Time Protocol (PTP) clock properties, use the show ptp time-property command.
	
	show ptp time-property
	
	Syntax Description This command has no arguments or keywords.
	
	Defaults None
	
	Command Modes Any command mode
	
	SupportedUserRoles network-admin
	network-operator
	vdc-admin
	vdc-operator
	
	Command History Release Modification
	5.2(1) This command was introduced.
	
	Usage Guidelines This command does not require a license.
	
	Examples This example shows how to display the PTP clock properties:
	`switch# show ptp time-property`
	`PTP CLOCK TIME PROPERTY:`
	`   Current UTC Offset valid: 0`
	`   Current UTC Offset: 33`
	`   Leap59: 0`
	`   Leap61: 0`
	`   Time Traceable: 0`
	`   Frequency Traceable: 0`
	`   PTP Timescale: 0`
	`   Time Source: 0xA0(internal Osccilator)`
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 611.
		show ptp time-property
		
		The show ptp time-property command displays the Precision Time Protocol (PTP) clock properties.
		
		Platform Arad, FM6000
		Command Mode Privileged EXEC
		
		Command Syntax
		`show ptp time-property`
		
		Examples
		• This command shows the PTP clock properties.
		`switch# show ptp time-property`
		`Current UTC offset valid: False`
		`Current UTC offset: 0`
		`Leap 59: False`
		`Leap 61: False`
		`Time Traceable: False`
		`Frequency Traceable: False`
		`PTP Timescale: False`
		`Time Source: 0x0`
		`switch#`
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 354.

Copyright Registration Information	Cisco	Arista

Cisco NX-OS 6.2
 	
Effective date of registration: 11/13/2014
	Examples This example shows how to display the SNMP information:
	``
	switch(config)# show snmp
	sys contact:
	sys location: anyplace, Anywhere
	
	0 SNMP packets input
	        0 Bad SNMP versions
	        0 Unknown community name
	        0 Illegal operation for community name supplied
	        0 Encoding errors
	        0 Number of requested variables
	        0 Number of altered variables
	        0 Get-request PDUs
	        0 Get-next PDUs
	        0 Set-request PDUs
	0 SNMP packets output
	        0 Too big errors
	        0 No such name errors
	        0 Bad values errors
	        0 General errors
	``
	
	Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 634.
		Example
		• This command configures *xyz-1234* as the chassis-ID string, then displays the result.
		``
		switch(config)#snmp-server chassis-id xyz-1234
		switch(config)#show snmp
		        Chassis: xyz-1234 <---chassis ID
		
		8 SNMP packets input
		        0 Bad SNMP version errors
		        0 Unknown community name
		        0 Illegal operation for community name supplied
		        0 Encoding errors
		        8 Number of requested variables
		        0 Number of altered variables
		        4 Get-request PDUs
		        4 Get-next PDUs
		        0 Set-request PDUs
		21 SNMP packets output
		        0 Too big errors
		        0 No such name errors
		        0 Bad value errors
		        0 General errors
		        8 Response PDUs
		        0 Trap PDUs
		SNMP logging: enabled
		        Logging to taccon.162
		SNMP agent enabled
		switch(config)#
		``
		
		Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 354.

02099-00004/7151381.1

Copyright Registration Information	Cisco	Arista
Cisco NX-OS 6.2 Effective date of registration: 11/13/2014	**show snmp engineID** To display the Simple Network Management Protocol (SNMP) engine ID, use the show snmp engineID command. show snmp engineID **Syntax Description** This command has no arguments or keywords. **Defaults** None **Command Modes** Any command mode **SupportedUserRoles** network-admin network-operator vdc-admin vdc-operator **Command History** Release Modification 4.0(1) This command was introduced. **Usage Guidelines** This command does not require a license. **Examples** This example shows how to display the SNMP engine ID: switch(config)# show snmp engineID Local SNMP engineID: [Hex] 80000009030005300A0B0C [Dec] 128:000:000:009:003:000:005:048:010:011:012 **Related Commands** Command Description snmp-server user Configures SNMP target notification users. Cisco Nexus 7000 Series NX-OS System Management Command Reference (2013), at 639.	**show snmp engineID** The show snmp engineID command displays the identification of the local Simple Network Management Protocol (SNMP) engine and of all remote engines that are configured on the switch. Platform all Command Mode EXEC **Command Syntax** show snmp engineID **Example** • This command displays the ID of the local SNMP engine. switch>show snmp engineid Local SNMP EngineID: f5717f001c730436d700 switch> Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1978.

EXHIBIT D TO CISCO'S OBJECTIONS AND RESPONSES TO ARISTA'S FIRST SET OF INTERROGATORIES

02099-00004/7151381.1